	Application No.	Applicant(s)
	09/960,006	CHATTERJEE ET AL.
Notice of Allowability	Examiner	Art Unit
	George L. Opie	2194
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>
1. This communication is responsive to Applicant's 25 Februa	ary 2005 amendments and supportin	<u>ig remarks</u> .
2. $\boxtimes$ The allowed claim(s) is/are $1-9_3$ $14-22_3$	now renumbered a	es 1-18.
3. The drawings filed on 20 September 2001 are accepted by		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority una)</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	,	
(b) ☐ including changes required by the attached Examiner's Paper Nos/Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5   Notice of Information	Patent Application (DTO 452)
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		Patent Application (PTO-152)
	_ Paper No./Mail Da	te
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	08), 7. ⊠ Examiner's Amendr	ment/Comment
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8.   Examiner's Statement	ent of Reasons for Allowance
of Biological Material	9.	John 1
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		ST. JOHN COURTENAY III PRIMARY SYAMINER

Part of Paper No./Mail Date 20050415

Serial Number: 09/960,006

Art Unit: 2194

## **Examiner's Amendment**

An examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee.

In a Telephone call on 15 April 2005, authorization for this Amendment was given by Mr. Marcel K. Bingham (Reg. No. 42,327).

The claims have been amended as specified by Applicant in the e-mail Amendment submitted 15 April 2005, which is attached hereto.

## **Contact Information:**

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system.

Status information for published applications may be obtained from either Private-PAIR or Public-PAIR.

Status information for unpublished applications is available through Private-PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hand carried responses should be delivered to the *Customer Service Window* (Randolph Building, 401 Dulany Street, Alexandria, Virginia 22314) and, if submitting an electronic copy on floppy or CD, to expedite its processing, please notify the below identified examiner prior to delivery, so that the Applicant can "handoff" the electronic copy directly to the examiner.

Serial Number: 09/960,006

Art Unit: 2194

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

All responses sent by U.S. Mail should be mailed to:

Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist at (571) 272-2100.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Opie at 571-272-3766 or via e-mail at *George.Opie@uspto.gov*. Internet e-mail should not be used where sensitive data will be exchanged or where there exists a possibility that sensitive data could be identified unless there is an express waiver of the confidentiality requirements under 35 U.S.C. 122 by the Applicant. Sensitive data includes confidential information related to patent applications.

## EXAMINES Amendment

Please amend claims 1, 2, 4, 6, and 7 as follows. Please cancel claims 12 and 13. Please add VIRSIONS OF claims 14 – 22 as follows.

CLEAN COPY REPLACES PREVIOUS CLAIMS

1	1.	(Currently Amended) A method of managing a shared object in an object-oriented
2		environment, the method comprising the steps of:
3		generating only a single instance of said shared object in response to attempts by a
4		plurality of clients to create an instance of a particular object belonging to a
5		class to which said shared object belongs;
6		registering a plurality of observer objects by invoking, for each observer object of
7		said plurality of observer objects, a first method of said shared object to
8		register said each observer object to notify about an event related to an
9		execution requested by a first client of a particular operation;
10		wherein said plurality of clients include athe first client;
11		each client of said plurality of clients invoking a second method of said shared object
12		to request execution of said particular operation; and
13		when the shared object performs the execution requested by the first client of the
14		particular operation, said shared object sending a first message about a first
15		event related to the execution requested by the said first client to each
16		observer object that has been registered to notify about an event related to the
17		execution requested by said first client of a particular operation.
1	2.	(Currently Amended) The method of Claim 1, wherein the steps further include
2		sending a second message about another event related to the execution requested by
3		the first client of the particular operation to saidan observer object that was registered
4		by said first client.

1	3.	(Previously Presented) The method of Claim 2, wherein:
2		the step of each client of said plurality of clients invoking a second method includes
3		said first client invoking said second method to request execution of a first
4		operation that includes a first subtask and a second subtask;
5		wherein the first message to the observer object registered by the first client is sent in
6		response to completing execution of the first subtask; and
7		wherein the second message to the observer object registered by the first client is sent
8		in response to completing execution of the second subtask.
1	4.	(Currently Amended) The method of Claim 1, further including the step of the first
2		client invoking another method of said shared object to register another observer
3		object about another event related to the execution requested by said first client of
4		said particular operation; and
5		wherein said other method is different than said first method.
1	5.	(Original) The method of Claim 1, further including the step of said shared object
2		creating, for each client of said plurality of clients, a client specific object that stores
3		data associated with said each client.
1	6.	(Currently Amended) The method of Claim 5, wherein the method further includes
2		invoking a particular method of said client specific object created for said first client
3		that returns information that may be used to access thean observer object that was
4		registered by said first client.
1 .	7.	(Currently Amended) The method of Claim 5, wherein the steps further include:
2		said shared object invoking a method of said client specific object; and

2

3		in response to said shared object invoking the method of said client specific object,
4		storing a reference value to thean observer object for said first client.
1	8.	(Original) The method of Claim 5, wherein the step of invoking the method of said
2		client specific object is performed in response to the attempt by said first client to
3		create an instance of a particular object belonging to a class to which said shared
4		object belongs.
1	9.	(Previously Presented) The method of claim 1, wherein the steps include:
2		for each client of said plurality of clients, performing the following steps when the
3		shared object performs the execution requested by said first client of the
4		particular operation:
5		identifying said each client;
6	•	determining whether said each client has registered an observer object abou
7		the event related to the execution requested by said first client of the
8		particular operation; and
9		if said each client has registered an observer object, then sending a first
10		message to said observer object by invoking said second method of
11		said observer object.
1	10 - 13	3. (Canceled)

14. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 1.

- 15. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 2.
- 16. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 3.
- 17. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 4.
- 18. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 5.
- 19. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 6.
- 20. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 7.
- 21. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 8.

22. (New) A tangible computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 9.

ST. JOHN COURTENAY IN PRIMARY EXAMINER